

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE  
STATEMENT**

Docket Number:  
**02885/84**

Serial No.  
**To be assigned**

Filing Date  
**Herewith**

Examiner  
**To be assigned**

Art Unit  
**To be assigned**

Invention Title  
**I/O AND MEMORY BUS SYSTEM FOR  
DFPS AS WELL AS MODULES HAVING  
TWO- OR MULTIDIMENSIONAL  
PROGRAMMABLE CELL STRUCTURES**

Inventors  
**Martin Vorbach et al.**

Commissioner for Patents  
P. O. Box 1450  
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1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicant(s) hereby bring the following reference(s) to the attention of the Examiner. The reference(s) are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b).
2. Copies of each of the cited references listed on the modified PTO form 1449 are not enclosed. Copies of each of the references were previously provided in the following parent application: U.S. Patent Application Serial No. 10/304,252.

Dated: *2 March 2001*

By: 

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO FORM 1449</b>	Atty. Docket No. <b>02885/84</b>	Serial No. <b>To be assigned</b>
	Applicant(s) <b>Martin Vorbach et al.</b>	
	Filing Date <b>Herewith</b>	Group Art Unit <b>To be assigned</b>

**U. S. PATENT DOCUMENTS**

EXAMINER'S INITIALS	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	RE34363	August 31, 1993	Freeman			
	4,591,979	May 27, 1986	Iwashita			
	4,706,216	November 10, 1987	Carter			
	4,739,474	April 19, 1988	Holsztynski			
	4,761,755	August 2, 1988	Ardini, et al.			
	4,811,214	March 7, 1989	Nosenchuck et al.			
	4,852,043	July 25, 1989	Guest			
	4,852,048	July 25, 1989	Morton			
	4,870,302	September 26, 1989	Freeman			
	4,901,268	February 13, 1990	Judd			
	4,967,340	October 30, 1990	Dawes			
	5,014,193	May 7, 1991	Garner et al.			
	5,015,884	May 14, 1991	Agrawal et al.			
	5,021,947	June 4, 1991	Campbell et al.			
	5,023,775	June 11, 1991	Poret			
	5,043,978	August 27, 1991	Nagler et al.			
	5,109,503	April 28, 1992	Cruickshank et al.			
	5,113,498	May 12, 1992	Evan et al.			
	5,115,510	May 19, 1992	Okamoto et al.			
	5,123,109	June 16, 1992	Hillis			
	5,125,801	June 30, 1992	Nabity et al.			
	5,128,559	July 7, 1992	Steele			
	5,142,469	August 25, 1992	Weisenborn			
	5,204,935	April 20, 1993	Mihara et al.			
	5,208,491	May 4, 1993	Ebeling et al.			
	5,226,122	July 6, 1993	Thayer et al.			
	5,233,539	August 3, 1993	Agrawal et al.			
	5,247,689	September 21, 1993	Ewert			
	5,287,472	February 15, 1994	Horst			

EXAMINER'S INITIALS	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,301,344	April 5, 1994	Kolchinsky			
	5,303,172	April 12, 1994	Magar et al.			
	5,336,950	August 9, 1994	Popli et al.			
	5,361,373	November 1, 1994	Gilson			
	5,418,952	May 23, 1995	Morley et al.			
	5,421,019	May 30, 1995	Holsztynski et al.			
	5,422,823	June 6, 1995	Agrawal et al.			
	5,426,378	June 20, 1995	Ong			
	5,430,687	July 4, 1995	Hung et al.			
	5,440,245	August 8, 1995	Galbraith et al.			
	5,442,790	August 15, 1995	Nosenchuck			
	5,444,394	August 22, 1995	Watson et al.			
	5,448,186	September 5, 1995	Kawata			
	5,455,525	October 3, 1995	Ho et al.			
	5,457,644	October 10, 1995	McCollum			
	5,473,266	December 5, 1995	Ahanin et al.			
	5,473,267	December 5, 1995	Stansfield			
	5,475,583	December 12, 1995	Bock et al.			
	5,475,803	December 12, 1995	Stearns et al.			
	5,483,620	January 9, 1996	Pechanek et al.			
	5,485,103	January 16, 1996	Pedersen et al.			
	5,485,104	January 16, 1996	Agrawal et al.			
	5,489,857	February 6, 1996	Agrawal et al.			
	5,491,353	February 13, 1996	Kean			
	5,493,239	February 20, 1996	Zlotnick			
	5,497,498	March 5, 1996	Taylor			
	5,506,998	April 9, 1996	Kato et al.			
	5,510,730	April 23, 1996	El Gamal et al.			
	5,511,173	April 23, 1996	Yamaura et al.			
	5,513,366	April 30, 1996	Agarwal et al.			
	5,521,837	May 28, 1996	Frankle et al.			
	5,522,083	May 28, 1996	Gove et al.			
	5,532,693	July 2, 1996	Winters et al.			
	5,532,957	July 2, 1996	Malhi			
	5,535,406	July 9, 1996	Kolchinsky			

EXAMINER'S INITIALS	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,537,057	July 16, 1996	Leong et al.			
	5,537,601	July 16, 1996	Kimura et al.			
	5,541,530	July 30, 1996	Cliff et al.			
	5,544,336	August 6, 1996	Kato et al.			
	5,548,773	August 20, 1996	Kemeny et al.			
	5,555,434	September 10, 1996	Carlstedt			
	5,559,450	September 24, 1996	Ngai et al.			
	5,561,738	October 1, 1996	Kinerk et al.			
	5,570,040	October 29, 1996	Lytle et al.			
	5,583,450	December 10, 1996	Trimberger et al.			
	5,586,044	December 17, 1996	Agrawal et al.			
	5,587,921	December 24, 1996	Agrawal et al.			
	5,588,152	December 24, 1996	Dapp et al.			
	5,590,345	December 31, 1996	Barker et al.			
	5,596,742	January 21, 1997	Agarwal et al.			
	5,617,547	April 1, 1997	Feeney et al.			
	5,634,131	May 27, 1997	Matter et al.			
	5,652,894	July 29, 1997	Hu et al.			
	5,655,124	August 5, 1997	Lin			
	5,659,797	August 19, 1997	Zandveld et al.			
	5,713,037	January 27, 1998	Wilkinson et al.			
	5,717,943	February 10, 1998	Barker et al.			
	5,734,921	March 31, 1998	Dapp et al.			
	5,742,180	April 21, 1998	Detton et al.			
	5,748,872	May 5, 1998	Norman			
	5,754,871	May 19, 1998	Wilkinson et al.			
	5,761,484	June 2, 1998	Agarwal et al.			
	5,778,439	July 7, 1998	Timberger et al.			
	5,801,715	September 1, 1998	Norman			
	5,828,858	October 27, 1998	Athanas et al.			
	5,838,165	November 17, 1998	Chatter			
	5,844,888	December 1, 1998	Narjyka			
	5,867,691	February 2, 1999	Shiraishi			
	5,892,961	April 6, 1999	Trimberger			
	5,915,123	June 22, 1999	Mirsky et al.			

EXAMINER'S INITIALS	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,927,423	July 27, 1999	Wada et al.			
	5,936,424	April 10, 1999	Young et al.			
	5,943,242	August 24, 1999	Vorbach et al.			
	5,956,518	September 21, 1999	DeHon et al.			
	6,014,509	January 11, 2000	Furtek et al.			
	6,052,773	April 18, 2000	DeHon et al.			
	6,054,873	April 25, 2000	Laramie			
	6,081,903	June 27, 2000	Vorbach et al.			
	6,108,760	August 22, 2000	Mirsky et al.			
	6,122,719	September 19, 2000	Mirsky et al.			
	6,127,908	October 3, 2000	Bozler et al.			
	6,243,808	June 5, 2001	Wang			
	6,279,077	August 21, 2001	Nasserbakht et al.			
	6,282,627	August 28, 2001	Wong et al.			
	6,288,566	September 11, 2001	Hanrahan et al.			
	6,311,200	October 30, 2001	Hanrahan et al.			
	6,341,318	January 22, 2002	Dakhil			
	6,347,346	February 12, 2002	Taylor			
	6,349,346	February 19, 2002	Hanrahan et al.			
	6,370,596	April 9, 2002	Dakhil			
	6,389,579	May 14, 2002	Phillips et al.			
	6,392,912	May 21, 2002	Hanrahan et al.			
	6,405,299	June 11, 2002	Vorbach et al.			

#### FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
	0 477 809	April 1, 1992	Europe				
	0 726 532	July 2, 1998	Europe				
	0 221 360	May 13, 1987	Europe				
	0 678 985	October 25 1995	Europe				
	0 428 327	May 22, 1991	Europe				

	0 539 595	May 5, 1993	Europe				
	0 707 269	April 17 1996	Europe				
	0 735 685	October 2, 1996	Europe				
	0 748 051	December 11, 1996	Europe				
	044 16 881	May 13 1993	Germany				
	196 51 075	June 10, 1998	Germany				
	196 54 595	July 2, 1998	Germany				
	196 54 846	July 9, 1998	Germany				
	197 04 728	August 13, 1998	Germany				
	WO94/08399	April 14, 1994	PCT				
	WO95/00161	January 5, 1995	PCT				
	WO95/26001	September 28, 1995	PCT				
	WO90/04835	May 3, 1990	PCT				
	WO93/11503	June 10, 1993	PCT				
	WO90/11648	October 4, 1990	PCT				

#### OTHER DOCUMENTS

EXAMINER'S INITIALS	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Villasenor, John, et al., "Configurable Computing." <u>Scientific American</u> , Vol. 276, No. 6, June 1997, pp. 66-71.
	Villasenor, John, et al., "Configurable Computing Solutions for Automatic Target Recognition," <u>IEEE</u> , 1996 pp. 70-79.
	Tau, Edward, et al., "A First Generation DPGA Implementation," <u>FPD'95</u> , pp. 138-143
	Athanas, Peter, et al., "IEEE Symposium on FPGAs For Custom Computing Machines," <u>IEEE Computer Society Press</u> , April 19-21, 1995, pp. i-vii, 1-222
	"Bittner, Ray, A., Jr., "Wormhole Run-Time Reconfiguration: Conceptualization and VLSI Design of a High Performance Computing system," <u>Dissertation</u> , January 23, 1997, pp. i-xx, 1-415
	Myers, G., <u>Advances in Computer Architecture</u> , Wiley-Interscience Publication, 2nd ed., John Wiley & Sons, Inc. pp. 463-94, 1978.
	M. Saleeba, "A Self-Contained Dynamically Reconfigurable Processor Architecture", Sixteenth Australian Computer Science Conference, ASCS-16, QLD, Australia, February, 1993.
	M. Morris Mano, "Digital Design," by Prentice Hall, Inc., Englewood Cliffs, New Jersey 07632, 1984, pp. 119-125, 154-161.
	Maxfield, C. "Logic that Mutates While-U-Wait" EDN (Bur. Ed) (USA), EDN (European Edition), 7 November 1996, Cahners Publishing, USA
	Norman, Richard S., <u>Hyperchip Business Summary, The Opportunity</u> , January 31, 2000, pages 1-3.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	